

DIPE 103
MAY 02 2001
PATENT & TRADEMARK

SEQUENCE LISTING

<110> Clendennen, Stephanie K.
Kellogg, Jill A.

<120> MELON PROMOTERS FOR EXPRESSION OF
TRANSGENES IN PLANTS

<130> 4257-0025.30

<140> US 09/811,093

<141> 2001-03-16

<150> US 60/190,414

<151> 2000-03-17

<160> 45

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 51

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<220>

<223> adaptor (universal genome walker)

<400> 1

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51

<210> 2

<211> 8

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<220>

<223> adaptor (universal genome walker)

<221> misc_feature

<222> (1)...(1)

<223> 5' nucleotide modified to include phosphate group

<221> misc_feature

<222> (8)...(8)

<223> 3' nucleotide modified to include amine group

<400> 2

accagccc

8

<210> 3

<211> 22

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<213> Artificial Sequence

<220>

PER # 14

A²

<223> primer

<400> 3

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22

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<213> Artificial Sequence

<220>

<223> primer

<400> 4

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19

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<220>

<223> primer

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26

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<220>

<223> primer

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26

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24

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<212> DNA

<213> Artificial Sequence

<220>

<223> primer

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<400> 9
gatccattat tagagattga gc 22

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<220>
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<400> 10
catggctcaa tctctaataa tg 22

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<220>
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gggctggaaa gcttaagaga aattggta 28

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<220>
<223> primer

<400> 12
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<220>
<223> primer

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ccatcctaatac gactcact atagggc 27

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<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 14
gggcagggtt ctagaattca gcggccgc

28

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<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 15
gtgaaactcg acccggttcct taaaaacttc

30

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<220>
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<400> 16
gctttccaat gagagccatg gttttaaacc tt

32

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<220>
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tattaccttc actggatctc ttccctc

27

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<220>
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<400> 18
gccttaagct ttgttgatca tccacatc

28

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<220>
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<400> 19
gtttgcattg tttccatggg aaa

23

<210> 20
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<220>
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<400> 20
agcggataac aatttcacac agga

24

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<220>
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<400> 21
aagctttttt tttttg

16

<210> 22
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<220>
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<400> 22
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16

<210> 23
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<220>
<223> primer

<400> 23
aagctttttt ttttta

16

<210> 24
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<223> primer

<400> 24

aagcttgatt gcc

13

<210> 25

<211> 13

<212> DNA

<213> Artificial Sequence

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<223> primer

<400> 25

aagcttcgac tgt

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<210> 26

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 26

aagctttggt cag

13

<210> 27

<211> 13

<212> DNA

<213> Artificial Sequence

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<223> primer

<400> 27

aagcttctca acg

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<210> 28

<211> 13

<212> DNA

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<220>

<223> primer

<400> 28

aagcttagta ggc

13

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<220>
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<210> 31
<211> 13
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A²
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<400> 31
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<220>
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<220>
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<220>
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<400> 34
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<210> 35
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<220>
<223> primer

<400> 35
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<210> 36
<211> 26
<212> DNA
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<220>
<223> primer

<400> 36
gacagtatag ttcattggctt ggttgg 26

<210> 37
<211> 27
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<220>
<223> primer

<400> 37
aggttctttt aatcaggcaa tcttctt 27

<210> 38
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 38
gcgggatacct atttttgtga attggaaatg 30

<210> 39
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 39

cgccagggtt ttcccagtca cgac

24

<210> 40

<211> 1499

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter

<400> 40

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gagctcggat ccactagtaa cggccgccag tgtgctggaa ttcggcttac tatagggcac 120
gcgtgggtcga cggcccgggc tggttaacttt aagagaaatt ggtaaaattc ctagagagaa 180
ttgtaattaa tataggagaa tgattttaat tctaattgtg tatccatttt cgataaagtt 240
aaataaagtg tcgtagacga ccatcattct taatccattt gtacttatca aatttgtatc 300
tgagatttaa gttcaaatcc aactaaaaac aatcgaaatg tatgcgacaa tcacaatgga 360
aaatacgtat gatgtattcc atcacctttc aagttctaac ctaggatatg ttttggaata 420
tttgagattt attaaattat tcttttatcc gttgacagtt tttttttgt ttaacgatgt 480
atgtaagaaa cgacgaaata tgtgattaaa ccaagatcgc atacaaataa gagctagatc 540
ctaaagatat ataaaagtat gatcaacaac gtacaaaacg tttcttttcg atgataatta 600
tcttaagaac ttcaaggtta atttagatct cttaattaaa aaatttcata gataatgcat 660
ccgtgaacaa gaaaaaacat aaagaaccga tgggtgtcct aatttttgta gtaaataagc 720
gtagttcaag acacaagtaa gaatgacgtt accacatggt aatctagatt ccaaaacttg 780
agcttgagag cacgttacga aaataatcta cgaaaacgag taagtcgtct aagttcgttt 840
tcgtttattt gacacgtaag atactcgtat tgaaagaaga cgaaaaatgg aaaaaagtaa 900
agaaggtaag gaggtgggtg agtccaaagg aaacatacca aattcatgca agaactatga 960
gattcagaaa ttaagagaaa agtgtggaaa tcatgtaact aaatttataa tacatatagg 1020
tactattttt tttctttttt tattgaaaca aagagaccaa gggggaatta gggatatagg 1080
cattggcaga cataaaaaata ataaagttaa atcaaattgg gtcccaaact caccaaagag 1140
gaaattcagt gttgaataaa gccaaattagc caaagccaaa gccaaagcca cctcctctct 1200
ttccacata catgcatgaa atttcatggg cccattcttt ttatcatcac atttttaata 1260
attttatctt cttctttctt ttctttctct tcttcttctt cttcttcttc ttcttctctt 1320
ttttttaatc aatttcttcc cactttccaa tcctaaataa atttcaactat aaataccctt 1380
tcattataac ttgatccaac acaccacca accaaaaaca aaaccttgat accaaagagt 1440
tcttttttct ttatttgcac aaaccaaata ttgtatctac aaaaagaaat ggctgtcta 1499

<210> 41

<211> 1319

<212> DNA

<213> Artificial Sequence

<220>

<223> promoter

<221> misc_feature

<222> (1)...(1319)

<223> n = A,T,C or G

<400> 41

aggaaacagc tatgaccatg attacgccaa gcttaagaga aattggtaaa attcctagag 60
agaattgtaa ttaatatagg agaatgattt taattctaatt gttgtatcca ttttcgataa 120
agttaaataa agtgtcgtag acgaccatca ttcttaatcc atttgtactt atcaaatttg 180
tatctgagat ttaagttcaa attcacacta aaacaatcga aatgtatgcg acaatcacia 240
tggaataaac gtatgatgta ttccatcacc tttcaagttc taacctagga tatgttttgg 300
aatatttgag atttattaaa ttattctttt atccgttgac agttttattt ttgtttaacg 360
atgtatgtaa gaaacgacga aatatgtgat taaaccaaga tcgcatacaa ataagagcta 420

gatcctaaag	atatataaaa	gtatgatcaa	caacgtacaa	aacgtttctt	ttcgatgata	480
attatcttaa	gaacttcaag	gttaatttag	atctcttaat	taaaaaattt	catagataat	540
gcatccgtga	acaagaaaaa	acataaagaa	cccatgggtg	tcctaatttt	tgtagtaaat	600
aagcgtagtt	caagacacaa	gtaagaatga	cgttaccaca	tgtaaatcta	gattccaaaa	660
cttgagcttg	agagcacggt	acgaaaataa	tctacgaaaa	cgagtaagtc	gtctaagttc	720
gttttcgttt	atttgacacg	taagatactc	gtattgaaag	aagacgaaaa	atggaaaaaa	780
gtaaagaagg	taaggagggtg	ggtgagtgca	aaggaaacat	accaaattca	tgcaagaact	840
atgagattca	gaaatttaaga	gaaaagtgtg	gaaatcatgt	aactaaattt	aaaatacata	900
taggtactat	tttctttcct	tttctattga	aasraagaga	nnaaggggga	attagngtat	960
atggcattgg	cagacataaa	aataataaag	ttaaatacaa	ttgggtccca	aactcaccaa	1020
agaggaaatt	cagtgttgaa	taaagccaat	tagccaaagc	caaagccaaa	gccacctcct	1080
ctctttccca	catacatgca	tgaaatttca	tgggcccatt	ctttttatca	tcacattttt	1140
aataatttta	tcttcttctt	cttcttcttc	ttcttcttct	tcttcttctt	cttcttcttc	1200
ttcttttttt	aatcaatttc	ttcccacttt	ccaatcctaa	ataaatttca	ctataaatac	1260
cccttcatta	taacttgatc	caacacaccc	aggatccatt	attagagatt	gagccatgg	1319

<210> 42
 <211> 1735
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> promoter

<400> 42						
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actatagggc	acgcgtggtc	cacggcccgg	gctggtaact	agaagctaaa	ggacgacgtc	180
aacataatta	aaattactcc	aagataatta	aaattaaaaa	tatcttatat	tttatggcgt	240
tacatcttcc	tttctcttcc	ttcttttttc	tgctgcgatt	tcttcccatc	tatttcttct	300
tttactctta	tttttttctt	tacattggtt	agatttggtt	aaccaaattc	gatttctttc	360
tatcgtcttt	cttctttttc	tctttttttt	tccgctgcga	tttcttccca	ttgtctatcg	420
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taaacgatcg	tagacaaatc	taaacgatcg	tgacacaaaa	gatttaaaaa	aatcggttag	600
tcaaatactaa	acaattgtat	aaccaaatta	aacgatagaa	ttgaaataat	aaatcggtta	660
gatttggtcta	tccaaattta	aatgaccaa	tctaaacgat	cgtataccaa	atctaaacga	720
tcgkatacca	aatctaaatg	atcatgtacc	aaatatatta	tgacatttgt	tgccaggggtg	780
gttgacggaa	cattttgtat	attttctatt	atgggtttgt	agaatttttt	cattttcgaa	840
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ccttaaataa	attgaattcg	catataatta	aaattttttc	ccaaaaaaag	tagactatgt	960
ctatctaaaa	atttgattcc	caatatagaa	caaattctca	aaatgaacaa	acatttgaaa	1020
ttctcgatat	agaaaacatt	tacttatttt	gaattgggac	atattccaaa	gtttattcca	1080
aacgtaactt	tgaaggaaaa	gttgattgag	attacatcca	tatttttggt	tttcatattg	1140
aatttcatgg	aaaattaaaa	tgacacacaa	atgatgtatg	agattaaacc	aaagtttatc	1200
gttattgaat	tcttttatta	aaaaaccaac	aaaattttta	aacttggttg	caatagacca	1260
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aatattttga	tttattttga	tatatattga	tttagataac	aaaattaaga	tttaaataat	1380
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tttatataac	attttaataa	ctaaatgatg	tgacacacac	taatattatt	tttatccaaa	1500
gaaaataatg	ctataaaaata	tgggtcttct	ttatcacctt	catgataatt	atgaaaaata	1560
aaataaaatt	taattatata	attcatttca	tctaatacgt	caagctagat	attactatat	1620
caacaacttt	gtgtataaaa	agggcaagaa	attaagcatt	atcgtgtgag	ccactttttc	1680
tatatctaga	gatagaaggt	ttaaaatcat	gtctctaatt	ggaaagcttg	tgagt	1735

<210> 43
 <211> 2184

<212> DNA
<213> Artificial Sequence

<220>
<223> promoter

<221> misc_feature
<222> (1)...(2184)
<223> n = A,T,C or G

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gccaagcttg gtaccgagct cggatccact agtaacggcc gccagtgtgc tgggaattcgg 120
cttactatag ggcacgcgtg gtcgacggcc cgggctggtc caatcaccga acatcatgtt 180
atgtaggtgt cgggagatgc tacctatctg ctgatgttgg tttctttctt tgaaagatac 240
tctcctgact ttttagttgt tgcactctga gatgtcctct attattttga caccttttct 300
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gaaataactca ccaggtgtaa tgatgcacct tatagagaaa acttcgacga acaagagacg 480
gctactaagt tttagtagaa tgggtatttc tgacctacta tgtttcagga tgcgaggatc 540
ttcatggtca attgtgaccg atggtggaga actgaaaata tttcccatct caatgaaata 600
ctaaaacaac atatcttaga ggttgaacta tttgatatct aggggaatata ttttatggga 660
ccgttttcta gttgttcggg caaacacgca ttcgagacgg gacgttcatg tcgcatacca 720
cggaggatcc gcatgtaagc tatccaagca atacttctac cctttttgtc ttctttaata 780
atatattttt tacttactaa gatagtttct aaatttggtg tagaatcgaa tgctggaact 840
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ggcgttggat agacgattgg actactcaaa aggccttggg tggggaccta agtctagggc 960
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cgatgcgtta gcttcaaaag tggaatgaat gtgaaagttc atagaagaca tgagtcgggc 1140
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ttaagttttt gaattacagt attcagtgat gatatgcata tatatgtacc aaacgtagcc 1260
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tattttgtaa tttactaatt tattttaaat tttctttaat tgaatcgata acgaatgcaa 1500
atatttttacg aaaaaaactt ataggaaaa atttcaaaaa aataaaaaat tacatattta 1560
aaatattttt cgacgcatta catatgtgga aaatatggtg caaacatcac atcggggatg 1620
gttattaccg acgcatgaat gacaccgaat atataaacgt aagggaatagt tattcctgac 1680
gcataactgc tgcggaact gtggaagtta gttctcgaca ttattaacac ttacgtcgac 1740
gtttttatgc atcgggagtc gctccacttc ttgtagtgaa gaaattttgc ctataatgtc 1800
ggtttaaaac cgacattaaa ggccaaattt cttctagtgc ataataata tmcaaaagtt 1860
caattccaaa aattacattt ctctagaaat tccgtgtgaa caattgtcat aaagggttta 1920
agtgaattga aaattttcaa acgtaattgg attaagcgag aaaattattt taatcaccat 1980
tcaaaagtta ttaacaatga aaaatatgga agataagatt tcaaaattac gtaatttact 2040
tctacgtttc tttctttccc ctttagtaac ttcactcata tctttatata cgttccatcc 2100
cttcacattc tcatacaaaa ttctctttca atatcaactc tcctctctta actcaccctt 2160
ttttcaaatg gaaacaatgc aaac 2184

<210> 44
<211> 985
<212> DNA
<213> Artificial Sequence

<220>
<223> promoter

<400> 44

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gcttggtacc	gagctcggat	ccactagtaa	cggccgccag	tgtgctggaa	ttcggcttac	120
tatagggcac	gcgtggtcga	cggcccgggc	tggtaaat	tgaaaagtta	ggagatattt	180
tttacatata	agagatat	tttataatgt	aacatttttt	ttactagacg	gttgagtcga	240
gttaggttaa	agaaaggaaa	actataaaat	aattttta	tattaaatac	ataaacaata	300
ctttgtattc	tatatata	aaaatgacta	ttgaattggt	aagatgtagg	tatctaagga	360
caagaagtct	cgagttcaaa	tcttcaacct	caaaatatac	tgcaagatag	taactaatga	420
attatatttg	actaaatcat	gtagcaaaaag	aaaatcaaat	ttatcatggt	aaatatggtc	480
aagccggagc	attaacaaca	acaattcata	tttgtggttg	atagtacttg	actagaattt	540
agagagtact	tgactagaat	aaaaattggg	ggacccacta	cgacgtcagc	ttgccttgct	600
tagcaattaa	gctatcacct	cttagtctat	agcttcgtgc	gctgcattaa	acggtattct	660
cacacttttc	ttttcttttt	accgcacccg	tccggtta	ggctcccca	ctttttacct	720
tccccgaatc	cacgccagtt	gccaacatgc	gaagcagcaa	gtacaatatt	gtcattttgc	780
attaaccaa	atgacacgtc	ggatgtcatt	tatgtaatta	agctacaaag	ccacggttag	840
tttccgaacc	cccacgatcc	agtacttacg	tgtctcctat	aaatcttaga	agcaacgtct	900
ttaccggaat	caactcatta	ggtatcccat	tttcatctat	caattcaccc	ttgaaactgc	960
ttttcccggc	accgactatg	gcctc				985

<210> 45
 <211> 2455
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> promoter

<400> 45

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ttagtgggtt	ttggatttta	tttatctttt	ttattattta	cattcaattt	agattttaact	120
cttgcagaag	atggaggaag	agaattttta	gaaattgaac	tgaaatagac	ttaattatta	180
aaaatcaaaa	gaaaaatggt	gccaacaaag	gtgactaaga	gtgtaatgaa	ttggaattag	240
aactttcctt	ctgtatagat	ataattgatg	ttttccttaa	ctttattttt	atgggtgggtta	300
tttattaata	actgaatttt	taagagttct	tttaataacc	aatgtttata	ggattcaatt	360
gattgtttta	tgagatttag	caaacacttt	atattggaga	aataatttag	tgtagaaagt	420
aattttcatt	ttggattggt	tagatgaaca	tcaaatcttg	caacaacatt	cagttaagta	480
tatataaata	tatagagcca	ccaacctcaa	atacaatata	ttcggaagca	aaatattata	540
cataatatgg	aaagaagagt	agtactggta	catgaatctt	acgaagaatt	taagtattat	600
tggtttttcc	aatgcagaag	tctcaacaaa	tcacatttta	aaaaccgatt	gaataaacat	660
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psr #14

A²

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